

Description

The FIREKILL™ C-EL Electrically Operated Control Valve is a series of robust and reliable deluge, angle positioned, pilot controlled valves created entirely in Stainless Steel (316L) and designed for operating in open deluge systems as a zone valve or a full flooding/deluge valve, capable of functioning under harsh conditions and designed to be connected to systems where no corrosion is allowed.

The Model C-EL Control Valve features smaller external trim than other conventional control valves, making the valve easy to install and limits the end-product costs, and greatly diminishes the spatial requirements of the control valve.



The Control Valves have been designed with the intention of being installed in fine water spray fixed firefighting systems (FFFS) in commercial and industrial applications. Because of the stainless-steel housing and internal components, the Model C-EL Control Valves are highly applicable in most areas. The valve can easily be disassembled for easy maintenance and refurbishment, without removing the valve housing from the connected system.

Approvals

The Model C-EL versions has been tested in a ISO17025 certified test laboratory.

Technical data

| Specification | | | | | | | |
|---|---------------------------------|--|----------------|----------|----------------------|----------|----------|
| Working Pressure | | Max 16 bar | | | | | |
| Factory Tested | | 24 bar | | | | | |
| Materials | | Stainless Steel AISI 316L | | | | | |
| Minimum standby pressure vs min flow (Note 1) | Min Pressure (bar) | 2 bar | 4 Bar | 5 Bar | 6 Bar | 7 Bar | 8 Bar |
| | Min flow (l/min) | 80 l/min | 60 l/min | 50 l/min | 40 l/min | 30 l/min | 20 l/min |
| Weight | | 22,50 Kg | | | | | |
| Activation Options | | Manual, Electrical (24 VDC NC/Impulse) | | | | | |
| Gasket Materials | | EPDM | | | | | |
| S&O nr. | Solenoid Valve Variations: | | 24VDC (11W) NC | | 24 VDC (10W) Impulse | | |
| | Flange version DN 80-80 | | CELB-13106 | | CELB-13107 | | |
| | Threaded version 3" NPT -3" NPT | | CELB-13108 | | CELB-13109 | | |
| Related Products | | | | | | | |
| Name | | Model | | | | | |
| Simple Gasket/O-ring Service Kit | | Model C Basic Valve Service Kit | | | | | |
| Complete Gasket/O-ring Service Kit | | Model C Full Valve Service Kit | | | | | |
| Service Wrench | | Model C Valve Wrench Kit | | | | | |
| Complete Valve Core for valve service | | Model C Valve Core Kit | | | | | |

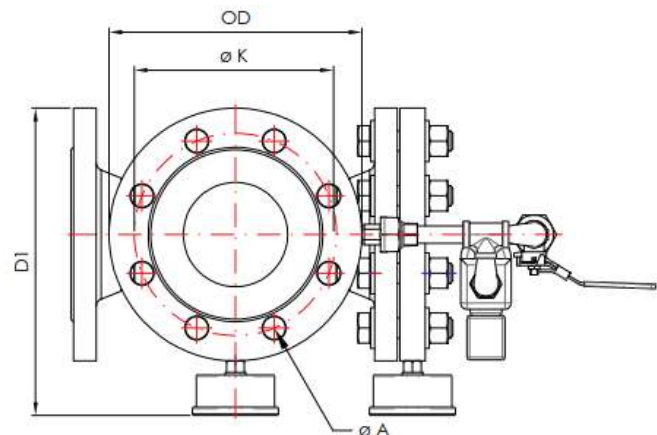
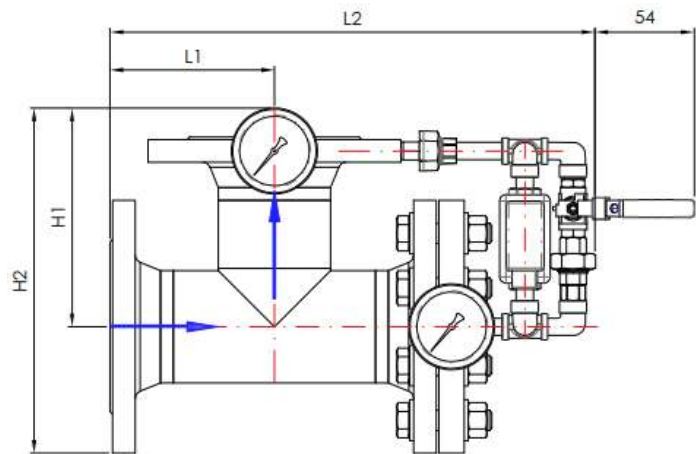
Note 1: The values defines the minimum stand by pressure vs minimum flow, i.e at typically 6 bar stand by pressure, the minimum flow in the system shall not be less than 40 l/min.

Valve Sizes and Variations

| Sizes | | KV-Value | | Pressure gauge location |
|--------|--------|----------|------------------------------|--|
| Inlet | Outlet | | | |
| DN 80 | DN 80 | 1800 | l/min at 1 bar pressure loss | On pilot chamber flange and outlet flanges |
| 3" NPT | 3" NPT | 1800 | l/min at 1 bar pressure loss | On pilot chamber flange and outlet flanges |

Dimensions

| | | |
|----|---------|---------|
| L1 | 137 mm | 195 mm |
| L2 | 380 mm | 415 mm |
| H1 | 167 mm | 225 mm |
| H2 | 330 mm | 330 mm |
| D1 | 250 mm | 250 mm |
| OD | 200 mm | 200 mm |
| øK | 165 mm | 165 mm |
| øA | 8 x ø18 | 8 x ø18 |

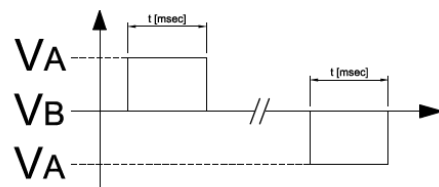
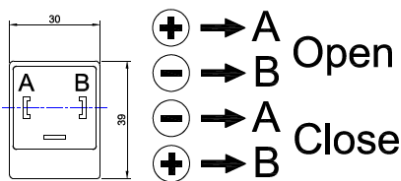


NOTE: To allow for maintenance while installed, the Model C-EL shall have a free space of 250 mm at the valve trim side.

NOTE: To ensure correct operation the fluid should be filtered to eliminate all traces of impurity subject to magnetic attraction, which would inevitably deposit on the cores of the solenoid valve, which are always magnetized, causing the formation of oxide as well as contact problem.

Impuls solenoid valve

- Impulse feed from 24 V DC for a period lasting from 20 to 100 ms.



Contact

For further information on FIREKILL™ products, please contact our sales department at Sales@vidfirekill.com

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